The Maryland Healthcare Commission Health Information Organization Research

Vermont - VITL

www.vitl.net

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Section	Requirement	Definitions	Vermont - VITL
	·	Clear description of how to	
		respond the unique needs an	
Vision	Vision	opportunities of HIE in state	Finish next 2009
	Mission		
	Principles from Appendix B		
	Interoperability		
	Quality of care		
Strategy and Planning			
		Economic Analysis of cost and benefit for each phase of	Health IT fund established in 2008 that 2/10 of 1% on medical claims would be in a fund for VITL.
	Financial Model and Sustainability	implementation	Requested by the health department.
	Financially sustainable		
	Transaction fees		
	Subscription fees		
	Membership fees		
	Hospital funding		
	State Funding		
	Federal Funding		
			\$1M raised for HER Pilot Program and the Grant
	Health Plan funding		Program from 4 major payers in state
	Physician funding		
	Philanthropic funding		
	Budget		
	capital		
	operating costs		
	Salaries		
	Benefits		
	Office expense		
	Rent		<u> </u>
	Utilities		<u> </u>
	Software purchase and		
	maintenance		
	Hardware purchase and		
	maintenance		

Т:	axes		
	yber Liability Insurance		
cash f			
	even analysis		
<u> </u>	ity Benefit		
Benefit Rea			
belletit Kea	lization		
ROI - fir	nancial measurement		Measurements are perfomred on the electronic health record project whereby physician offices are held to five milestone grant payment to prove they have meaningful use of their systems. Modeled after the stimulus bill and is based on improved receivables, use of e-prescribing and patient satisfaction.
ROI - qu	uality measurement		
ROI - Sy	stem use measurement		
h	ow many users		
w	hat do they access		
Governance	e Framework	A multi-stakeholder approach that represents the needs of the community and all stakeholders	
Plan for eng	gaging stakeholders		VITL has a plan for this on the website
	model: Public-Private		
Profit Statu	s: Not-for-profit		
Articles of C			VITL is still applying for the 501 c 3 status and proving that they serve a public good
Role of Lo	ocal HIEs:		
creation	clude but not require n of independent ance entities to oversee		
regiona would d	I or local HIE. All HIEs conform with statewide , standards and rules.		VITL is the statewide HIO but they don't discourage other formation of RHIO's but those would have to connect through VITL
RHIO pa	articipation will be required ed as regional governance		
entities) s must be inclusive and non-		

Separate governing structure from	
technical operations (potential for	
combination in latter stages)	
Governance and technical	
operations in single entity	
Accountability Mechanisms	
Direct oversight through contracts	
with incentives for adherence and	
penalties for non-adherence	
Direct oversight via legislation	
Board of Director Composition	
	presentation; Legislative as well
State Medicaid Agencies	
State Department of Health	
State Healthcare and Hospital	
Association	
State Medical Association	
Other non-profits who are involved	
in the medical community	
	ted on the Board
Government Agencies who may be	
a stakeholder	
Consumers	
Employers	
Insurers Represent	ted on the Board
Health Care Providers Represent	ted on the Board
Pharmacy	
Clinical Laboratories	
Higher Education Represent	ted on the Baord
Quality Organizations	
Operational / Management Positions	
and Responsibilities	
Positions	
Staffing is	Greg plus 7 full time people - leverage
	endor GE staff of 200 or 300 they tap into.
	ultants. 7 part time people.
Executive Director	

Staff	
2 program staff, controller, 2	
adm assistants	
Privacy and Security Officer	
Responsibilities	
Execute strategic, business and	
technical plans	
Coordinate day-to-day tasks and	
deliverables	
Establish contracts and other	
relationships with local/sectoral	
initiatives	
Provide industry knowledge	
Advise the Board	
Board Committees and Responsibilities	
Governance Board	Executive Committee
Maintain vision, strategy, and	
outcome metrics	
Build trust, buy-in and	
participation of major	
stakeholders statewide	
Assure equitable and ethical	
approaches	
Develop high-level business and	
technical plans	
Approve statewide policies,	
standards, agreements	
Balance interests and resolve	
disputes	
 Raise, receive, manage and	
distribute state, federal, private	
funds	
Prioritize and foster	
interoperability for statewide	
and sub-state initiatives	
Implement statewide projects	
and facilitate local/sector	
projects	

Identify and overcome obstacles		
Financial and legal		
accountability, compliance, risk		
management		
Educate and market		
Facilitate consumer input		
(Others in MCHIE document		
worth reviewing and making sure		
tie back to above)		
Determining compensation for		
staff		
Board Committees		
Broadens stakeholder		
representation in governance		
body		
Provides content expertise in		
very specific areas		
Represents clinicians,		
consumers, employers and		
payers		
Suggested Committees:	E	Board level and one advisors committee - finance
	٤	goverance executive and practioner advisory group
	ā	and consumer committee.
Steering Committee		
Privacy and Security (legal, S & P		
officers)		
Clinical	F	Practioners Committee
Technical		
Standards		
Outreach and Education		
Privacy and Security	F	Participated in HISPC Phases
Registration		
Registration authority		
Trusted relationship (i.e. hospital)		
Authentication –		
providers		
consumers		
public health		

other institutions (educational)	
non licensed providers (if any exist	
in state)	
data authentication (in and out of	
HIO)	
system authentication (system	
accessing HIO)	
Identification -	Master Person index - for providers. Consumers do
	not have direct access yet.
Use of a master person index to	
provide provider and consumer	
information	Provider only
public health	
 other institutions (educational)	
non licensed providers (if any exist	
in state)	
data identification	
system identification	
Credentialing of health care	
providers	
Audit – providers, consumers, data	
what is audited	
who audits	
how often	
external audit requirements	
	Modeling from OTR Guidance - have 5 different
	policies around enforcement, use, breach etc.
	Compliant with state and federal laws.
rules of enforcement	
Authorization – providers, consumers,	
data	
providers authorized to see what	
data	Identified data flows to providers, de-identified data
	 is flowing for the medical home project
consumers authorized	
public health	
 other institutions (educational)	
non licensed providers (if any exist	
in state)	

data authorization		
system authorization		
Access – role based using HL7		access if everyone but consumers - identified data
standards		flows to treating providers - de-identitied flowing for
		medical home project.
Who can access what data		
Who can change, update data		
Sensitive specially protected health		For this data, the opt in from has it spelled out so the
information - substance abuse,		consumer can select it. Med History is 95% opt in
HIV/AIDS, genetic etc.		rate.
Consent Framework		
Opt In	*if patient opts out does the data	
	still go to the HIO without	Opt In model - patient privildge statute goes above
	allowing it to be viewed, changed	and beyond HIPAA - opt in to exchange of their
	etc.	information.
Opt Out	Recommend reviewing California	
	consent models - very detailed	
	based on use cases	
Notice only to consumer that their		
information in accessible via HIO		
Use of de-identified data		
Legal Agreements:		
master participation agreement		In place
use agreement		In place
business associate agreements		In place
	Develop sound policy to manage	
	authorization and access to	
	electronic patient information in a	
	consumer centric approach to	
	health information exchange	
	(Privacy and Security Policies)	
Policy and Procedures		In place
authentication		
 audit		
 authorization		
access		

consent			
	statewide that all		
	and may require		
legislation or ov	• •		
office	Wileisinp by Ad		
Break the glass			
Form relevant p	olicy to enable		
·	nunity health status		
Improved comin	numey meanin status		
HRB			
Support for Policies	Governing Patient		
Authorization for Da	_		
	_		
Legal Issues			
HIPAA consider	ations		
			Consumer Advisory Committee - started and
			restarted a couple time - have a plan for this - used
			them on specifc work task around policy
			considerations. Lots of education done - dense area
			of study. Technology and Health care information
MDCMRA as ma	ay be required		and Legal.
		Ensure Transparency, convene all	A survey was completed with 500 consumers
		stakeholders, educate	(random digit dail) and found that consumers want
Stakeholder Outrea	ch and Education	·	electroinic records.
Part of statewid	le governing body		
Documented pr	ocess to educate:		
			Consumer Advisory Committee has been started and
			re-started a couple of time and they have a new plan
			for this. They have done a lot of education around
			the state. VITL finds that the outreach works best if
Consumers			you give people something to do. Specific work tasks.
Under-serve	ed		
Providers			
Public Health			
Government A	Agencies		
Non-profits			

	Understanding of market forces -		
	patterns of care , who to connect with		
	and political environment		Working with QIO and VPQIC
	Care Delivery	Implementation Sequencing –	
		Who has access first and	
		Implementation Phasing - What	
		information is available first	By end of 2009 50% of the major providers in the
Detail Design			state and large hospitals will be part of VITL
	Phase 1:		
	Data Partners		
	Hospitals		
	Laboratories		
	Clinics		
	Pharmacies		
	Individual Physician Practice		
	Nursing Homes		
	State Health Agencies		
	Quality Organization		
	Medicare		
	Medicaid		
	Insurers		
	Data Exchange Requirements		
	Use case analysis to determine		
	actors, information they need, how		
	to provide:		
	Clinical Decision Support Tools		
	Medication history and		Study completed showing that Rx-HUB is best for
	reconciliation		medical history and e-prescribing
	outpatient prescriptions		VITL is sharing medication history
	pharmacy prescriptions		VITL is sharing medication history
	e-prescribing and		
	prescription histories		
	Allergy and drug-drug		
	interaction alerts		
	Access to drug formularies		
	for Medicaid and MD's two		
	top private insurers		
	Lab results		VITL is sharing lab results
	outpatient lab results		

Outpatient episodes	
Radiology Results	
Radiology images	
Inpatient episodes	
Dictation / transcription	
Claims	
Pathology	
enrollment / eligibility	
Cardiology	
GI	
Pulmonary	
Hospital discharge summary	
Emergency room reports	
Patient Reported Data	
Ambulatory electronic health	
record	
Disease Management Tools	
Wellness and prevention	
support based on national	
proactive guidelines - disease	
management	
Medical Alerts	
Demographics	
Application Functionality	
Evaluate the following applications	
based on use case analysis:	VITL is using GE Healthcare and applications are
based off use case analysis.	
aliminal managaina	hosted by GE VITL has results messaging on a secure FTP point to
clinical messaging	
	point network which is their private network. The
	messaging is an interface sructured standard
	document for physicians and custom to the physician
	code set.
Continuity of care records (CCD)	
Longitudinal health records	
Elements of Shared Health	VITL is hosting an electronic health record for
Record	physicians, they chose from five systems selected
	using CCHIT requriements. This program should be
	researched further.
Insurance Eligibility	

Functionality to Support Access	
to Data for Research	
Support for External Information	
Requests	
Master person index	
Record Locator Service	
Health Record Banking	
	Personal Health Record has been reviewed but VITL
	is waiting for the Markle document on this.
Auditing	
Security Applications	
System Architecture	
Plan for interfaces of data from	They do have a distinction between standards for
data providers	exchanging data and the internal standards a data
	partner may have. Recognizing they would be
	different.
Push / Pull	
Central Repository vs. Federated	
Model	Combination of a central repository and a RLS
Record Locator - Edge Servers	They use a registry which is similar to a RLS HITSP
	compliant and the data is self contained.
Hybrid Model	
MPI	
HRB with opt-in	
Web-based application (portal)	
Reporting	
Standards	VITL is using all the national standards that would
	apply
 Standards for Message and	
Document Formats (HL7)	
Standards for Clinical Terminology	

	Provide and implement CCHIT	
	certified EMRs for selected	
	physicians as determined by XXXXX	
	with options including: EMR	
	license with physician storing in	
	office; license with storage at	
	hospital or health bank; license	
	with storage at vendor; ASP model	
		VITL is providing this service
	HITSP-endorsed IHE approach	
	appropriate for supporting	
	distributed data or HRB	
	ASTM Standards	Use these standards -
	NIST e-authentication	
	IHE	
Implementation	Project Management	
	Team Selection	
	Detail Schedule	
	Task development	
	Hardware infrastructure	
	Software Solution Deployment	
	Interface analysis	
	Interface Development	
	Agreement negotiation	
	Solution Testing	
Maintenance	Operations processes	
	Staffing	
	Support Services	
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